## What is Claimed is:

- 1. An apparatus for inserting a portion of a stretch of a pre-wound coil into a slot of a dynamoelectric machine component, the machine component having a bore, the apparatus comprising:
- a ram having a longitudinal axis, the ram configured to insert the portion of the stretch into the bore; and

a pushing member configured to push the portion of the stretch into the slot by moving from a first position to a second position, the first and second positions separated by a displacement having a circumferential component with respect to the axis.

2. The apparatus defined by claim 1 wherein: the ram has a maximum radial extent; and

a portion of the pushing member is disposed at a position closer to the axis than the maximum radial extent when the pushing member is in the first position.

- 3. The apparatus defined by claim 1 further comprising at least one stationary blade configured to support the machine component.
- 4. The apparatus defined by claim 1 further comprising a moveable blade configured to moveably support the portion of the stretch when the ram inserts the portion into the bore.

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- 5. The apparatus defined by claim 1 further comprising a moveable blade wherein the pushing member is moveably attached to the moveable blade.
- 6. The apparatus defined by claim 1 further comprising at least one forming tool configured to press a portion of the coil into a desired form.
- 7. The apparatus defined by claim 6 further comprising a reaction die disposed opposite the forming tool, wherein the reaction die is configured to compress the portion of the coil.
- 8. A method for inserting a portion of a stretch of a pre-wound coil into a slot of a dynamoelectric machine component, the machine component having a bore and a longitudinal axis, the method comprising:

inserting the portion of the stretch into the bore; and

pushing the portion of the stretch into the slot in a direction having a circumferential component with respect to the axis.

9. The method defined by claim 8 wherein the inserting comprises:

pushing the portion of the stretch into the bore; and

- 5 guiding the coil with a stationary blade.
  - 10. The method of claim 8 further comprising pressing a portion of the coil into a desired form.

- 11. The method of claim 10 further comprising compressing the portion of the coil.
- 12. The method defined by claim 8 further comprising positioning a pushing member in the bore using a moveable blade.
- 13. The method defined by claim 8 further comprising moveably supporting the coil using a moveable blade during the inserting.
- 14. The method defined by claim 8 further comprising, when the coil has leads, terminating the leads.
- 15. An apparatus for inserting a portion of a stretch of a pre-wound coil into a slot of a dynamoelectric machine component, the machine component having a bore and a longitudinal axis, the slot having a bottom and an opening, the opening facing a direction having a circumferential component with respect to the axis, the apparatus comprising:

a ram configured to insert the portion of the stretch into the bore; and

- 10 a pushing member configured to push the portion toward the bottom of the slot.
  - 16. The apparatus defined by claim 15 wherein: the ram has a maximum radial extent; and

a portion of the pushing member is disposed at a position closer to the axis than the

- 5 maximum radial extent when the pushing member is in the first position.
  - 17. The apparatus defined by claim 15 further comprising at least one stationary blade configured to support the machine component.
  - 18. The apparatus defined by claim 15 further comprising a moveable blade configured to moveably support the portion of the stretch when the ram inserts the portion into the bore.
  - 19. The apparatus defined by claim 15 further comprising a moveable blade wherein the pushing member is moveably attached to the moveable blade.
  - 20. The apparatus defined by claim 15 further comprising at least one forming tool configured to press a portion of the coil into a desired form.
  - 21. The apparatus defined by claim 20 further comprising a reaction die disposed opposite the forming tool, wherein the reaction die is configured to compress the portion of the coil.
  - 22. A method for inserting a portion of a stretch of a pre-wound coil into a slot of a dynamoelectric machine component, the machine component having a bore and a longitudinal axis, the slot having an opening, the opening facing a direction having a circumferential component with respect to the axis, the method comprising:

inserting the portion of the stretch into the bore; and

- 10 pushing the portion of the stretch into the slot.
  - 23. The method defined by claim 22 wherein the inserting comprises:

pushing the portion of the stretch into the bore; and

5 guiding the coil with a stationary blade.

- 24. The method of claim 22 further comprising pressing a portion of the coil into a desired form.
- 25. The method of claim 24 further comprising compressing the portion of the coil.
- 26. The method defined by claim 22 further comprising positioning a pushing member in the bore using a moveable blade.
- 27. The method defined by claim 22 further comprising moveably supporting the coil using a moveable blade during the inserting.
- 28. The method defined by claim 22 further comprising, when the coil has leads, terminating the leads.
- 29. An apparatus for inserting a portion of a stretch of a pre-wound coil into a slot of a dynamoelectric machine component, the machine component having a bore, the apparatus comprising:
- a ram having a longitudinal axis, the ram configured to insert the portion of the stretch into the bore;



a pushing member configured to push the portion of the stretch into the slot by moving from a

10 first position to a second position, the first and second positions separated by a displacement having a circumferential component with respect to the axis; and

a blade configured to support the portion of the stretch;

15 wherein:

as the pushing member moves from the first position to the second position, the pushing member is radially outside the blade.

- 30. The apparatus defined by claim 29 further comprising at least one forming tool configured to press a portion of the coil into a desired form.
- 31. The apparatus defined by claim 30 further comprising a reaction die disposed opposite the forming tool, wherein the reaction die is configured to compress the portion of the coil.
- 32. A method for inserting a coil into a dynamoelectric machine component, the machine component having a bore, a slot, and a longitudinal axis, the method comprising:

5 placing the coil onto an insertion tool;

inserting a portion of a stretch of the coil into the bore; and

pushing the portion of the stretch into the slot in a direction having a circumferential component with respect to the axis.

33. The method defined by claim 32 further comprising winding the coil outside the machine component.